



UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231

APPLICATION NUMBER	FILING DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO.
087472, 876	06/07/95	GARCIA	A TRD-001-1A

EXAMINER

26M2/0121
KILLWORTH GOTTMAN HAGAN & SCHAEFE
ONE DAYTON CENTRE SUITE 500
ONE SOUTH MAIN STREET
DAYTON OH 45402-2023

CHL M
ART UNIT PAPER NUMBER

2605

DATE MAILED: 01/21/97

This is a communication from the examiner in charge of your application.
COMMISSIONER OF PATENTS AND TRADEMARKS

OFFICE ACTION SUMMARY

☒ Responsive to communication(s) filed on 7/8/96

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 D.C. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or ~~thirty days~~, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☐ Claim(s) _____ is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☒ Claim(s) 12 is/are allowed.

☒ Claim(s) 31-34, 35-39, 29, 14, 15, 17, 18 is/are rejected.

☒ Claim(s) 24, 21, 5, 9, and 28 is/are objected to.

☐ Claim(s) _____ are subject to restriction or election requirement.

Application Papers

☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been

☐ received.

☐ received in Application No. (Series Code/Serial Number) _____

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☐ Notice of Reference Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 10

☐ Interview Summary, PTO-413

☐ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

-SEE OFFICE ACTION ON THE FOLLOWING PAGES-

Art Unit: 2605

1. The amendment filed July 8, 1996 is objected to under 35 U.S.C. 132 because it introduces new matter into the disclosure. 35 U.S.C. 132 states that no amendment shall introduce new matter into the disclosure of the invention. The added material which is not supported by the original disclosure is as follows: When an audio signal is the form of a square wave.

Applicant is required to cancel the new matter in the response to this Office action.

2. Claims 32 to 34 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. An input audio signal in the form of a square wave is a new matter.

3. Claims 17 to 18, 29 and 39 rejected under 35 U.S.C. 112, second paragraph, as being indefinite in that it fails to point out what is included or excluded by the claim language. This claim is an omnibus type claim.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Art Unit: 2605

5. Claims 31 and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Gauthier.

Gauthier discloses an apparatus for enhancing the quality of an input audio signal and which is comprised of a the input audio signal having a plurality of frequencies (12); a circuit operatively adapted for distorting the input audio signal therethrough into an enhanced audio signal by non-linearly amplifying frequencies of the input audio signal (14) such that the enhanced audio signal exhibits an improved harmonic quality; the audio signal has a bandwidth of frequencies with a low end and a high end (col. 5, lines 24 to 28 and col. 6, lines 11 to 14)..

Claims 31 to 34, 35 to 38, 14 to 15 and 17 to 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gauthier.

6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.


7. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gauthier.

Gauthier ^{does not} ~~does not~~ disclose recording the enhanced audio signal onto a recording medium.

However, even though Gauthier does not disclose recording onto a recording medium, it would have been obvious to have a recording medium as claimed because recording an audio signal for later use is well known in the art.

Art Unit: 2605

8. Claims 24, 2, 5, ³8 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
9. Claim 12 is allowable over prior art of record.
10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minsun Oh whose telephone number is (703) 308-6741.


Minsun Oh
Patent Examiner
Group 2605
January 21, 1997